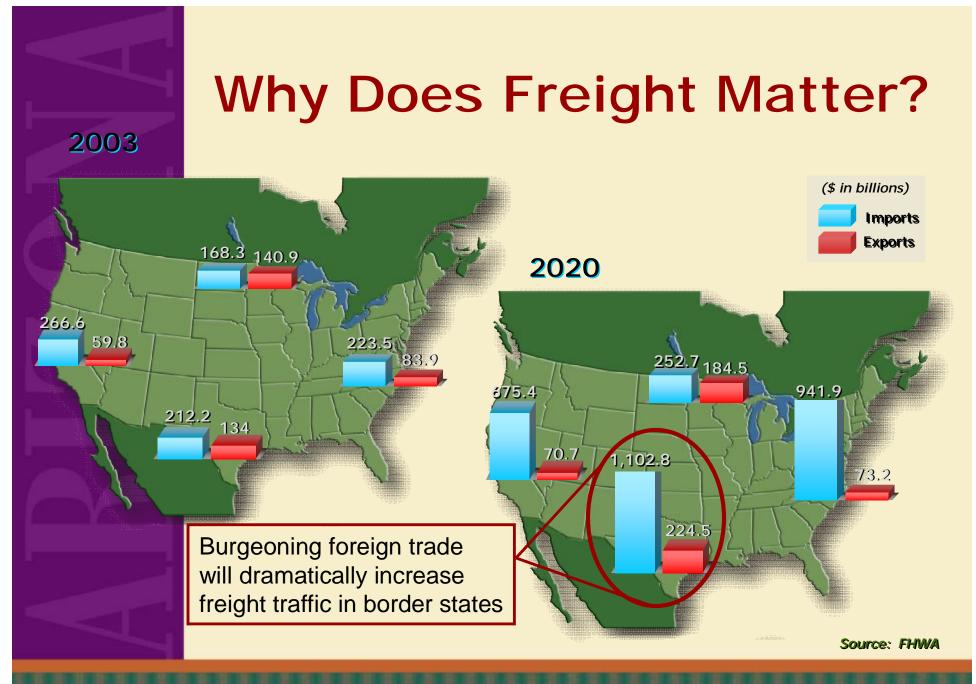


Prepared for the Arizona Department of Transportation

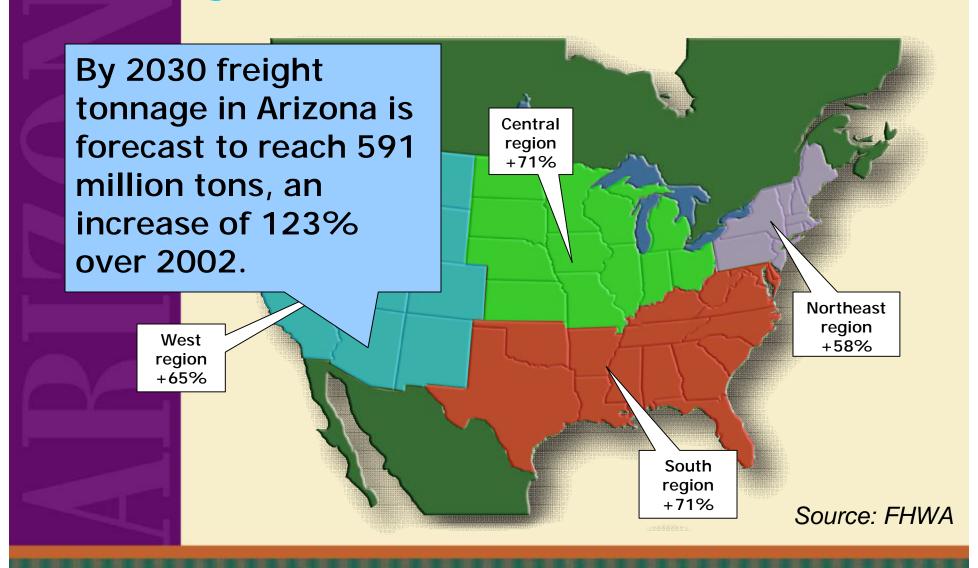


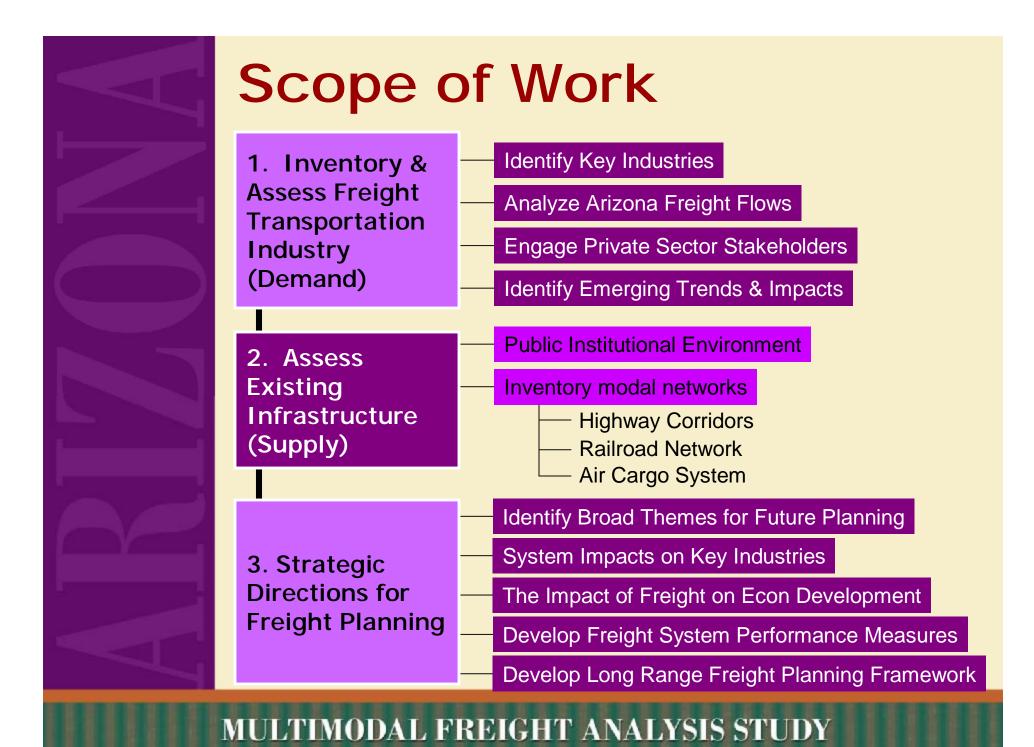
# Agenda

- Overview of Project Work Plan
- TRANSEARCH Data Discussion
- Stakeholder Outreach Plan Discussion
- Wrap-up and Next Steps



# U.S. domestic freight tonnage growth forecast, 2000-2020







# 1. Assess Freight Industry – Identify Freight Dependent Industries

- Build on previous studies/analyses
- Analyze TRANSEARCH and Freight Locator data
- Identity and map key commodity generating facilities
- Describe and map key industry supply chain process flows



# 1. Assess Freight Industry – Analyze Freight Flows

- Analyze TRANSEARCH commodity flow data to identify
  - Major trading partners
  - Key modal corridor
  - Tonnage and value summaries
- Descriptive summary highlighting major commodities and markets, using maps and graphics



# 1. Assess Freight Industry – Engaging Private Stakeholders

- Identify stakeholders through CSCMP, chambers of commerce, and other sources
- Conduct interviews with a cross section of industry modal stakeholders
- Establish a Freight Advisory Committee
- Host the FHWA one-day "Engaging the Private Sector" workshop.



# 1. Assess Freight Industry – Emerging Trends and Issues

### Railroad Trends and Issues

- Increasing demands on rail capacity
- Intermodal pricing
- Corridor development: Arizona-Guaymas
- Selected new investment with ramifications for Arizona
  - Union Pacific freight car classification yard:
    Picacho
  - Union Pacific rail line to Punta Colonet



# 1. Assess Freight Industry – Emerging Trends and Issues

- Summarize trends in key industries
- Document issues and trends from stakeholder interviews

The key results and analysis of each of the four subtasks will be described in a Technical Memorandum



# 2. Existing Freight Infrastructure Assessment - Institutional Environment

- Discuss private stakeholder issues and concerns with key public officials and private sector associations
- Conduct face-to-face interviews
  - transportation policy officials
  - economic development officials
  - regulatory enforcement officials
- Document innovative practices and programs being conducted in peer agencies



# 2. Freight Infrastructure Assessment - Highway Corridors

- Evaluate existing and future operating conditions
  - Interstate Highways
  - National Network Highways
  - Key Regional Corridors
  - Connections to Freight Hubs
- Describe attributes of highway network
  - traffic volumes
  - percentage of truck volume
  - levels of service
  - intersection/interchange configurations
  - key public truck facilities



# 2. Existing Freight Infrastructure Assessment - Rail Freight Network

- Profile rail network
  - Ownership
  - Classification main line/branch line, freight only/freight-passenger
  - Operations
  - Configuration and physical parameters
  - Density
- Profile rail terminals and facilities: intermodal, bulk, truck-rail transload
  - Ownership
  - Configuration
  - Use
  - Highway access



# 2. Existing Freight Infrastructure Assessment - Rail Freight Network

- Profile markets and traffic
  - Location
  - Principal shippers
  - Principal commodities
  - Traffic flows originated, terminated, through (overhead)
- Assess impact of future development on major rail corridors
  - Affected corridors
  - Future requirements



# 2. Existing Freight Infrastructure Assessment - Air Cargo System

- Review Arizona's airport facilities and identify level of cargo activity
- Inventory airport facilities
  - Airfield facilities runways, taxiways
  - NAVAIDS
  - Terminal facilities
  - Ground transportation facilities
  - Cargo storage/handling facilities
  - Cargo carriers/aircraft used
  - Activity levels cargo tonnage by type
  - Potential intermodal connections



# 3. Strategic Directions – Broad Themes for Future Freight Planning

- Integrate with existing long range plan themes and policies
- Review latest freight planning issues/ resources from FHWA, AASHTO and TRB
- Examine strategic themes in other states.



# 3. Strategic Directions - Impacts of Freight on Economic Development

- Quantify significance of freight/logistics industries to region
- Model economic returns of improving freight transportation
- Inform policymakers and public about importance of freight

# mind

# 3. Strategic Directions - Establish a Freight Planning Framework

### **Policy** Goal:

Reliable freight transport networks

### **Policy Objectives**

Include freight in design & operations **Enhance** freight mobility

**Improve** safety, economic vitality & quality of life

### **Strategies for Achieving Policy Objectives**

with truck in freight planning for freight via better ogistics zoning Understand **Urban design** Warehouse & Land use

design Partnering for thru technology planning trucks in traffic corridors effective **Enhance flow** Incorporate Focus on key

quality standards for development balance in economic regional freight Design mpacts on air nfrastructure **Examine lane Examine freight** 



# 3. Strategic Directions - Develop Key Freight Performance Indicators

- Data availability
- Prediction feasibility
- Robust
- Meaningful (tied to decisions being made and goals/objectives)

Mode Specific Performance Measures

Monitoring capability

Facility-level and Corridor-Performance Assessment

System-level Monitoring and Plan Evaluation



### Final Report & Executive Summary

- Technical Memorandums will be produced from each of the primary tasks
- The Tech Memos will be condensed and combined with the development of recommendations into a draft final report
- Upon approval of the Final Report, an Executive Summary will be produced for broad distribution.



### Questions??